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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,862	09/12/2003	Yulun Wang	157438-0007	8652

1622 7590 03/24/2005

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EXAMINER

MARC, MCDIEUNEL

ART UNIT	PAPER NUMBER
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3661

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/660,862

Applicant(s)

WANG ET AL.

Examiner

McDieunel Marc

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/17/2003.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-36 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-36 are rejected under 35 U.S.C. 102(b) as being anticipated by **Ghodoussi *et al.*** (U.S. Pat. Pub. 20030144649A1).

As per claims 1, 8, 15, 19, 26 and 23, **Ghodoussi *et al.*** teaches with respect to claims 1, 8 and 15 “Tele-Medicine System That Transmits And Entire State Of A Subsystem” having a mobile robot (see fig. 1), comprising a robot that has a camera (see fig. 1), not that one of the three arms contains a camera; a first remote station that has a first monitor and an input device that receives input to cause movement of said robot, said first monitor displays the video image; and, a second remote station that has a second monitor that also displays the video image (see fig. 1), note that Ghodoussi *et*

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al. contains two surgeon consoles/ **ZEUS**¹s. With respect to claims 19, 26 and 33, a broadband network ...(see figs. 1 and 7). It is inherent, but also well known that each handle of Ghodoussi *et al.* 's system works in combination with software command through a computer system in a conferencing manner via a network.

As per claims 2-7, 9-14, 16-18, 20-25, 27-32 and 34-36, Ghodoussi *et al.* teaches a robot type, wherein a Computer Motion of Goleta, Calif. provides a system under the trademark **ZEUS**® that allows a surgeon to perform minimally invasive surgery, including CABG procedures. The procedure is performed with instruments that are inserted through small incisions in the patient's chest. The instruments are controlled by robotic arms. Movement of the robotic arms and actuation of instrument end effectors are controlled by the surgeon through a pair of handles and a foot pedal that are coupled to an electronic controller. Alternatively, the surgeon can control the movement of an "endoscope used to view the internal organs of the patient through voice commands. The handles and a screen are typically integrated into a console that is operated by the surgeon to control the various robotic arms and medical instruments of a **ZEUS**® system. Utilizing a robotic system to perform surgery requires a certain

¹ The **ZEUS**® Surgery Robotic System is similar to the **Da Vinci**™ system. At a console the surgeon controls the instrument handles while viewing the operative area on a monitor. Using a computer interface the surgical instruments attached to a three arms robot mimic the surgeon's movements on a real time on the patient as seen in figure. One of the arms is designed for the endoscope controlled by voice control. The technology available eliminates the slight hand tremors of the surgeon and also allow the surgeon to scale their natural movements to a microscopic scale. The **ZEUS** system has many advantages such as small incision about the diameter of pencil, reduced patient pain and trauma, and short hospital stays.

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amount of training. It would be desirable to provide a system that would allow a second surgeon to assist another surgeon in controlling a robotic medical system. The second surgeon could both teach and assist a surgeon learning to perform a medical procedure with a ZEUS system. This would greatly reduce the time required to learn the operation of a robotically assisted medical system, also (see figs. 1-9, 11, 12 and pages 2-7).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to McDieunel Marc whose telephone number is (703) 305-4478. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (703) 305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

McDieunel Marc

Wednesday, March 09, 2005

MM/

THOMAS G. BLACK
SUPERVISORY PATENT EXAMINER
GROUP 9600

